

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A projection type video display ~~characterized by~~ comprising:

light deflecting means for circularly deflecting, in receiving irradiated light and transmitting the received light, the light;

color separating means for separating the light into lights in the three primary colors and respectively introducing the lights into three hold type display elements;

projecting means for recombining image lights in the respective colors obtained through the hold type display elements and projecting the recombined image lights; and

element driving means for feeding a pixel-driving signal to each of the hold type display elements, and in that

the amount of light which will be wasted in producing said circular deflection is reduced by utilizing at least one of the functions including condensing, more than twice reflecting, and refracting, and in that the lights in the respective colors condensed in smaller areas than those of the element are circularly scrolled on the hold type display elements.

2. (Currently Amended) The projection type video display according to claim 1, ~~characterized in that~~ wherein

the element driving means starts to feed pixel-driving signals for the succeeding frame to pixels which are located at a position, through which an illuminating area passes, on each of the hold type display elements.

3. (Currently Amended) The projection type video display according to claim 2,  
~~characterized in that~~ wherein

the pixel-driving signal is fed at N times (N is an integer of 2 or more) of a frame rate,  
and the timing of illumination of a pixel is matched with the time when a response of the pixel is  
flattened out.

4. (Currently Amended) The projection type video display according to claim 3,  
~~characterized in that~~ wherein

a pixel-driving signal whose change is more greatly emphasized than a pixel-driving  
signal allowing a necessary response value of the pixel to be obtained is fed to the pixel, to  
compensate for delay.

5. (Currently Amended) The projection type video display according to claim 4,  
~~characterized by comprising~~

a table allowing data representing the pixel-driving signal whose change is emphasized  
by the final pixel value in the preceding frame and the current pixel value to be obtained.

6. (Currently Amended) The projection type video display according to claim 1,  
~~characterized by comprising~~

control means for detecting a difference between a frame period and a deflection period  
by the light deflecting means and carrying out correction control of the deflection period such  
that the difference is eliminated or occurs in a constant manner.

7. (Currently Amended) The projection type video display according to claim 6,  
~~characterized in that~~ wherein

such control that the luminance value of the pixel determined by a response of the pixel  
and a period of light irradiation onto the pixel in a case where the difference occurs is matched  
with a predetermined luminance value in a case where no difference occurs is carried out.

8. (Currently Amended) The projection type video display according to claim 7,  
~~characterized in that~~ wherein

a value whose change is more greatly emphasized than the target value of the response of  
the pixel is set depending on the difference, to feed the pixel-driving signal.

9. (Currently Amended) The projection type video display according to claim 7,  
~~characterized in that~~ wherein

the timing of feeding of the pixel-driving signal is controlled depending on the difference.

10. (Currently Amended) The projection type video display according to claim 1,  
~~characterized by~~ further comprising

a rod prism for introducing light emitted from a light source with a reflector and  
condensed into the light deflecting means.

11. (Currently Amended) The projection type video display according to claim 10,  
~~characterized in that~~ wherein

the rod prism has a tapered shape so as to reduce the dispersion of the light.

12. (Currently Amended) The projection type video display according to claim 1,  
~~characterized in that~~ wherein

the light deflecting means is constructed by rotatably providing a lens array wheel having a plurality of functional units each composed of a convex lens arranged in a disc shape along its circumference.

13. (Currently Amended) The projection type video display according to claim 1,  
~~characterized in that~~ wherein

the light deflecting means is constructed by rotatably providing a prism.

14. (Currently Amended) The projection type video display according to claim 1,  
~~characterized in that~~ wherein

the light deflecting means is constructed by rotatably providing a disc member having a light transmitter formed in a spiral shape and having a reflecting surface in an area other than the light transmitter.

15. (Currently Amended) The projection type video display according to claim 1,  
~~characterized in that~~ wherein

the light deflecting means is constructed by rotatably providing a cylindrical member having light transmitters and reflectors alternately formed repeatedly on its surface.

16. (Currently Amended) The projection type video display according to claim 10,  
~~characterized in that~~ wherein

the rod prism is folded such that the light entrance direction and the light exit direction  
differ,

the light deflecting means is composed of a rotatable cylindrical member having light  
transmitters and reflectors alternately formed repeatedly on its surface, and

the whole or a part of the rod prism is positioned inside the cylindrical member.

17. (Currently Amended) The projection type video display according to claim 14,  
~~characterized in that~~ wherein

the disc member is inclined to the direction of light irradiation,

an auxiliary mirror is provided at a position where light from the reflecting surface of the  
disc member is received, and

the light reflected from the auxiliary mirror is introduced into the light transmitter in the  
disc member.

18. (Currently Amended) The projection type video display according to claim 17,  
~~characterized in that~~ wherein

the disc member is composed of a transparent member, and reflecting surfaces are  
respectively formed on both surfaces of the transparent member.

19. (Currently Amended) The projection type video display according to claim 14,  
~~characterized in that~~ wherein

the light deflecting means comprises a single spiral light transmitter, and produces a single scrolling light per rotation driving.

20. (Currently Amended) The projection type video display according to claim 14,  
~~characterized in that~~ wherein

the light deflecting means comprises at least two spiral light transmitters, and produces at least two scrolling lights per rotation driving.

21. (Currently Amended) The projection type video display according to claim 19,  
~~characterized in that~~ wherein

the light deflecting means is constructed by putting a first rotating disc having one spiral light transmitter and a second rotating disc having a spiral light transmitter for adjustment corresponding to the spiral light transmitter close together, and

there is further provided a width adjusting mechanism for changing and setting a relative rotation angle between the first rotating disc and the second rotating disc around its rotation axis, to adjust the width of the spiral light transmitter.

22. (Currently Amended) The projection type video display according to claim 21,  
~~characterized in that~~ wherein

the width adjustment mechanism comprises

means for forming a direct or indirect meshed state between the first rotating disc and the second rotating disc and releasing the meshed state, and

means for releasing the meshed state after stopping the rotation of the first rotating disc and the second rotating disc, to fix either one of the first rotating disc and the second rotating disc and rotate the other rotating disc.

23. (Currently Amended) The projection type video display according to claim 21, ~~characterized in that~~ wherein

the width adjusting mechanism is composed of driving means for generating a relative rotation driving force between the first rotating disc and the second rotating disc while maintaining a state where the first rotating disc and the second rotating disc are together rotated.

24. (Currently Amended) The projection type video display according to claim 23, ~~characterized in that~~ wherein

one of the rotating discs is provided with an actuator, and a rotation driving force is applied to the other rotating disc from the actuator.

25. (Currently Amended) The projection type video display according to claim 23, ~~characterized in that~~ wherein

one of the rotating discs is provided with one constituent portion of a magnetic force actuator, and the other rotating disc is provided with the other constituent portion of the magnetic force actuator.

26. (Currently Amended) The projection type video display according to claim 20,  
~~characterized in that~~ wherein

the light deflecting means is constructed by putting a first rotating disc having at least two spiral light transmitters and a second rotating disc having a spiral light transmitter for adjustment corresponding to the spiral light transmitter close together, and

there is further provided a width adjusting mechanism for changing and setting a relative rotation angle between the first rotating disc and the second rotating disc around its rotation axis, to adjust the width of the spiral light transmitter.

27. (Currently Amended) The projection type video display according to claim 26,  
~~characterized in that~~ wherein

the width adjustment mechanism comprises

means for forming a direct or indirect meshed state between the first rotating disc and the second rotating disc and releasing the meshed state, and

means for releasing the meshed state after stopping the rotation of the first rotating disc and the second rotating disc, to fix either one of the first rotating disc and the second rotating disc and rotate the other rotating disc.

28. (Currently Amended) The projection type video display according to claim 26,  
~~characterized in that~~ wherein

the width adjusting mechanism is composed of driving means for generating a relative rotation driving force between the first rotating disc and the second rotating disc while maintaining a state where the first rotating disc and the second rotating disc are together rotated.



29. (Currently Amended) The projection type video display according to claim 28,  
~~characterized in that~~ wherein

one of the rotating discs is provided with an actuator, and a rotation driving force is applied to the other rotating disc from the actuator.

30. (Currently Amended) The projection type video display according to claim 28,  
~~characterized in that~~ wherein

one of the rotating discs is provided with one constituent portion of a magnetic force actuator, and the other rotating disc is provided with the other constituent portion of the magnetic force actuator.

31. (Currently Amended) The projection type video display according to claim 1,  
~~characterized in that~~ wherein

the light deflecting means comprises at least two light deflecting elements, and periodically produces at least two different scrolling lights, and

there is further provided video signal correcting means for subjecting the input video signal to luminance value correction corresponding to each of at least the two different scrolling lights for each irradiation period of the scrolling light.

32. (Currently Amended) The projection type video display according to claim 31,  
~~characterized in that~~ wherein

there is provided means which receives the video signal to control the rotation driving of the light deflecting means in synchronization with a synchronizing signal in the video signal,

the video signal correcting means comprises a plurality of correction tables corresponding to at least the two scrolling lights,

the correction table is selected by phase information in the rotation of the light deflecting means, and

an address is generated on the basis of the synchronizing signal in the video signal, to read out correction data from the selected correction table.

33. (Currently Amended) The projection type video display according to claim 32, ~~characterized by~~ comprising

image photographing means, and

means for producing a plurality of correction tables on the basis of luminance information in each area at the time of projecting a predetermined image on a screen obtained by the image photographing means and phase information in the rotation of the light deflecting means.

34. (Currently Amended) The projection type video display according to claim 32, ~~characterized in that~~ wherein

the correction table also serves as a correction table for correcting color nonuniformity.

35. (Currently Amended) The projection type video display according to claim 1, ~~characterized by~~ comprising

means for driving a light source by a pulse which is synchronized with the video signal, and

means for controlling the rotation driving of the light deflecting means in synchronization with the video signal.

36. (Currently Amended) The projection type video display according to claim 35, ~~characterized by~~ comprising

frequency multiplying circuit for converting the pulse into a positive number multiple of the synchronizing signal.

37. (Currently Amended) The projection type video display according to claim 1, ~~characterized in that~~ wherein

the lights in the respective colors separated by the color separating means are introduced into the hold type elements in the respective colors in optical path lengths which are equal to one another.

38. (Currently Amended) The projection type video display according to claim 37, ~~characterized in that~~ wherein

means for separating two of the lights in the three primary colors and the other light and means for recombining the separated lights in the three primary colors are arranged on an optical axis of the lights which have not been separated,

the optical path of the two lights and the optical path of the one light are symmetrical about the optical axis, and

one of the two lights is separated at a halfway portion on the optical path of the two lights and is introduced onto the optical axis.

39. (Currently Amended) The projection type video display according to claim 37,  
~~characterized by~~ further comprising

optical means in a rectangular parallelepiped shape serving as means for recombining the  
image lights in the respective colors,

one surface of the optical means in a rectangular parallelepiped shape being a light exit  
surface, a surface oppositely facing the light exit surface being a light entrance surface at the  
center, and right and left surfaces thereof being light entrance surfaces on the right and left sides,

first color separating means for separating white light into lights having the two primary  
color components and a light having the other primary color component,

second color separating means for separating the lights having the two primary color  
components into two lights having the one primary color component, and

a double-face mirror arranged on the incident side of the hold type display element  
arranged on the light entrance surface at the center so as to be inclined at 45 degrees to its light  
incident optical axis, and in that

the optical axis of the light having the one primary color component separated by the first  
color separating means and the optical axis of the light having the one primary color component  
separated by the second color separating means are set so as to cross each other, and

the double-face mirror is arranged at the position where the optical axes cross each other.

40. (Currently Amended) The projection type video display according to claim 39,  
~~characterized in that~~ wherein

the optical means in a rectangular parallelepiped shape, the hold type display element  
arranged on the light entrance surface at the center, the double-face mirror, and the first color  
separating means are arranged on one straight line.

41. (Currently Amended) The projection type video display according to claim 40,  
~~characterized in that~~ wherein

the light deflecting means is arranged with its optical axis matched with the straight line.

42. (Currently Amended) The projection type video display according to claim 40,  
~~characterized in that~~ wherein

the light deflecting means is provided with its optical axis crossing the straight line at right angles.

43. (Currently Amended) The projection type video display according to claim 1,  
~~characterized in that~~ wherein

the light deflecting means is arranged on the optical path of the light in each of the colors in the color separation optical system.

44. (Currently Amended) In a rotation driving type illuminating device for circularly deflecting, in receiving light irradiated from a light source and transmitting the received light, the light,

an illuminating device ~~characterized by~~ comprising:

a rod prism ~~in a folded type in~~ which is foldable such that the light entrance direction and the light exit direction differ, and

a cylindrical member having light transmitters and reflectors alternately formed periodically on its surface, the whole or a part of the rod prism ~~[[is]]~~ being positioned inside the cylindrical member, wherein the cylindrical member is rotated so that the irradiated light is scrolled.